17 INCH LCD COLOR MONITOR



PERATING INSTRUCTIONS

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SAFETY AND PRECAUTIONS

Please read through this section carefully and follow the instructions given. In this way you will guarantee reliable operation and a long life for your LCD monitor. Always keep these instructions handy and close by your LCD monitor. Keep the instructions and the packaging so that if you sell or give away your LCD monitor you can give them to the new owner.

OPERATING SAFETY



- **Never open the housing** of the LCD monitor/power supply! When the housing is open there is a **danger of injury** from electric shock!
- Do not insert **any objects** through the slots and openings **into the inside of the LCD**. This may lead to an electrical short-circuit or even fire resulting in damage to your LCD monitor.



- Slots and openings in the LCD monitor are for ventilation purpose. Do not cover these
 openings, as otherwise this may lead to overheating.
- Do not allow **children** to play **unattended** on electrical equipment. Children may not always correctly recognize danger.
- This LCD monitor is intended for personal use only. It **not** intended for commercial use in **a heavy industry environment**.
- An **injury hazard** exists when the **display breaks**. Wear protective gloves to pack the broken parts and send them into your service center for proper **disposal**. Then wash your hands with soap, because it is possible for **chemicals** to escape.
- Never exert pressure on the display. This could break the monitor.
- Do not touch the display with your fingers or with sharp objects to avoid damage.

Please proceed as outlined in the "Customer Service" section:

- if the power cable/power supply overheats or is damaged
- if liquid has gotten into the monitor
- if the LCD monitor is dropped or the housing damaged

REPAIR

- Leave all repairs of your LCD monitor to authorized and qualified personnel only.
- Should a repair be necessary, please contact one of our authorized **service partners** only.

Notes for Service Engineers

- Before opening the housing, disconnect the monitor from all power sources and remove any connecting cables. If the monitor has not been disconnected from the power outlet before being opened, there is a danger to life through electric shock. There is also a risk of damage to the components.
- Internal components of the LCD monitor may be damaged by **electrostatic discharge** (ESD). Carry out system upgrades and changes in an **ESD-protected workshop**. If no such workshop is available, wear an **antistatic wrist strap** or touch a highly conductive metal object. We can repair damage sustained by inappropriate handling for a fee.
- Use only original spare parts.

POINT OF USE

- Keep your LCD monitor and all units connected to it away from moisture and avoid dust, heat and direct sunlight. Failure to observe these instructions can lead to malfunctions or damage to the LCD monitor.
- Place and operate all units on **a stable**, **level** and **vibration-free surface** in order to avoid the LCD monitor from falling.
- Avoid dazzle, reflections, extreme light/dark contrast in order to save your eyes and ensure a pleasant, ergonometric work station.
- Take **regulator breaks** when working with your LCD monitor in order to avoid tension and fatigue.

ENVIRONMENTAL CONDITIONS

- The LCD monitor can be operated at an ambient temperatures of between **+41°F** and **+95°F** (5° C to 35° C) and at a relative humidity of between 10% and 80% (without condensation).
- When switched off, the monitor can be stored at between **-4°F** and **+140°F** (-20° C +60° C), up to the maximum height of 39,000 ft (12,000 m) above sea level at a relative humidity of between 10% and 85% (without condensation).
- After transporting your LCD monitor please wait until it has assumed the ambient temperature before connecting and switching it on. Extremely high variations in the **temperature or humidity** may result in condensation forming on the inside of the LCD monitor which could cause an **electrical short-circuit**.

CONNECTING

Observe the following instructions to connect your LCD monitor properly:

POWER SUPPLY



- Do not open the housing of the mains (power supply). An open housing presents a **lethal hazard** from electrical shock. There are no parts inside to be cleaned or serviced.
- Operate your LCD monitor mains (power supply) only on grounded sockets with **AC 100-240V~/ 50-60 Hz.** If you are not sure about the power supply at your location, check with your power company.
- Use only the mains (power supply) and power connection cable **provided.**
- For additional safety we recommend use of **an excessive voltage protection device** to protect your LCD monitor from damage resulting from **voltage surges** or **lightning**.
- To interrupt the LCD monitor from mains (power supply) disconnect the plug from the socket.
- The power **socket** must be in the vicinity of your LCD monitor and within reach of the power cables. **DO NOT stretch the power cables tightly to reach a power socket**.
- If you use an **extension cable**, ensure that it fulfills the **VDE requirements**. Please ask your electrician.
- You should lay the LCD Monitor cables in a manner that no one can trip or step on it.
- To avoid damage of cable do not place any objects or furniture on the cable.
- You can adjust your LCD monitor a **maximum of about 3° downward** and a **maximal 20° upward** (see page 10). If you attempt to go beyond these points with force, the **danger of damage** exists.

STANDARDS/ELECTRO-MAGNETIC COMPATIBILITY

Your monitor fulfils the requirements for electro-magnetic compatibility and electrical safety specified in the following standards:

EN 55022, EN 55024, EN 60950, EN 61000-3-2, EN 61000-3-3 UL60950 / CAN CSA 22.2 No 60950, FCC

- When connecting ensure that Guidelines for Electro-Magnetic Compatibility (EMC) are observed.
- Provide an interval of at least one meter from **high-frequency and magnetic sources of interference** (television sets, loudspeakers, mobile telephones, etc.) in order to avoid malfunctions and data loss.

ERGONOMICS

- This monitor complies with all relevant regulations such as DIN EN ISO 9241-3, DIN EN ISO 9241-7 and DIN EN ISO 9241-8.
- For ergonomic reasons we suggest not to use the base-color blue on dark subfonds. This would cause bad readability and would increase eye strain.
- While working with screens you should take breaks periodically to avoid tension and fatigue.
- In order to save your eyes and to assure a convenient working area you should **avoid glare, reflections** and **strong contrasts** on the screen. For more detailed information on workplace ergonomics, see page 12.

ELECTRICAL SAFETY

EN 60950 Safety of information technology equipment.

- The connection of devices is limited to equipment that complies with EN60950 "Safety of information technology equipment" or EN60065 "Audio, video and similar electronic apparatus. Safety requirements"
- For U.S. / Canadian purposes: The PC should only be connected to equipment which complies with UL 60950 / CAN CSA 22.2 No 60950

TRANSPORT AND RECYCLING

- Keep the original packaging and use it to protect the LCD monitor during transport or storage.
- Packing materials and product are recyclable.

PRECAUTIONS

Caution! There are no parts which can be serviced or cleaned inside of the monitor housing.

You can increase the service life of your LCD monitor by taking the following precautions:

- Before cleaning always disconnect the power line and all connection cables.
- Do **not use any solvents**, caustic or gaseous cleaning agents.
- Clean the display with a soft, lent-free cloth.
- Ensure that no water droplets remain on the screen. Water can cause **permanent discoloration**.
- Do not expose the screen to **bright sunlight** or **ultraviolet radiation**.

IMPORTANT ADDITIONAL SAFETY INSTRUCTIONS

When using any electronic equipment, basic safety precautions should always be taken. Following the guidelines below can reduce the risk of fire, electric shock and injury to person:

- Do not use this product near water (e.g., near a bathtub, wash bowl, kitchen sink or laundry tub, in a wet basement or near a swimming pool).
- Avoid using a telephone/modem (other than a cordless type) during an electrical storm. There may be a remote risk of electric shock from lightning.
- Do not use the telephone/modem to report a gas leak in the vicinity of the leak.
- Use only the power cord indicated in this manual. Do not dispose of batteries in a fire. They may explode. Check with local codes for possible special disposal instructions.
- Keep batteries away from children at all times.

FCC COMPLIANCE STATEMENT

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced technician for help.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. Shielded interface cables, if any, must be used in order to comply with the emission limits.

DECLARATION OF CONFORMITY

According to 47CFR, Parts 2 and 15 for Class B Personal Computers:

We: Medion Aktiengesellschaft

(Name of the Responsible Party)

Located at: Gänsemarkt 16 – 18

D-45127 Essen Germany

(Address, City, State, Zip Code)

Fax: 0 201 / 81 081 - 227

(Facsimile Number for conformity issues only)

Declare under sole responsibility that the product identified herein, complies with 47CFR Parts 2 and 15 of the FCC rules as a Class B digital device. Each product marketed, is identical to the representative unit tested and found to be compliant with the standards. Records maintained continue to reflect the equipment being produced can be expected to be within the variation accepted, due to quantity production and testing on a statistical basis as required by 47CFR §2.909. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation. The above named party is responsible for ensuring that the equipment complies with the standards of 47CFR §§15.101 to 15.109.

Trade Name: Medion

Type or

Model Number: MD 41887

Party Responsible: MEDION AG

Executed on (Date), at (Place): 20th of July, 2004, Essen

INTRODUCTION

NOTES ON THESE INSTRUCTIONS

We have arranged these instructions so that you can quickly find the subject related information in the table of contents.

The purpose of these instructions is helping you operate your LCD display safely, quickly and easily.

OUR TARGET GROUP

Thank you for purchasing our LCD display. We thank you for your confidence in our products and are pleased to greet you as a new customer. These instructions are intended for initial users as well as advanced users. Regardless of the possible professional utilization, this display is intended for private use only.

QUALITY

We focused on great features, ease of use and reliability in manufacturing your LCD monitor. The balanced hardware and software concept offers you an advanced display design which will provide you a great deal of pleasure for your work and entertainment.

SERVICE

Service and support will be available every time you use your new LCD Display. Contact us, we will be glad to help.

This manual contains a separate chapter on the subject of service beginning on page 15.

INCLUDED EQUIPMENT

Please check your new LCD Display for completeness. Notify <u>us within 14 days after purchase</u> if it is not complete. With your LCD monitor you receive:

- 1- LCD monitor
- 1- Connection cable
- 1- Power cable
- 1- Operating instructions
- 1- Guarantee card
- 1- Audio cable (optional)

PERFORMANCE CHARACTERISTICS

Advantages in relation to cathode ray tubes

- Less space required
- Lower weight
- Power savings

High image quality

- SXGA standard: resolution up to 1280 x 1024
- Full image for all resolutions
- Over 16 million colors (simulated)

Further features

- > The LCD monitor is a plug and play device which is automatically recognized by your operating system.
- > The power management fulfills the VESA DPMS standard. During idle times (OFF mode) the power consumption is automatically reduced by up to 95 %.

⇒ Before start-up always read the Chapter "Safety and Precautions" on page 1ff.

PREPARATIONS ON YOUR COMPUTER

If you have operated your computer previously with a CRT monitor, it will be necessary for you to make a few preparations. This is required when your previous monitor was operated with settings which are not supported by your new LCD monitor.

SUPPORTED MONITOR SETTINGS

Resolution	Horizontal	Vertical	
Resolution	Frequency	Frequency	
720 x 400	31.47 KHz	70 Hz	
640 x 350	31.5 KHz	70.1 Hz	
640 x 480	31.47 KHz	60 Hz	
640 x 480	35.0 KHz	66.7 Hz	
640 x 480	37.86 KHz	72.8 Hz	
640 x 480	37.5 KHz	75 Hz	
800 x 600	35.2 KHz	56.3 Hz	
800 x 600	37.88 KHz	60.3 Hz	
800 x 600	48.08 KHz	72.2 Hz	
800 x 600	46.87 KHz	75 Hz	
832 x 624	49.11 KHz	75.1 Hz	
1024 x 768	48.36 KHz	60 Hz	
1024 x 768	56.48 KHz	70.1 Hz	
1024 x 768	60.02 KHz	75 Hz	
1280 x 1024	63.98 KHz	60.02 Hz	
1280 x 1024	79.98 KHz	75 Hz	

DISPLAY PROPERTIES

This Windows program offers you the possibility of adapting the display to your monitor. This includes items such as the background image, the screen saver, the Active Desktop (Web) as well as other settings for your monitor and video card.

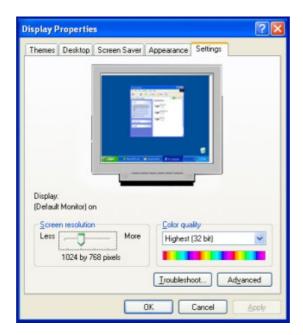
The program can be started as follows:

> Right mouse click on Windows desk top and left mouse click on "Properties".

Or

Start the "Display" program in "System control".

START-UP 7

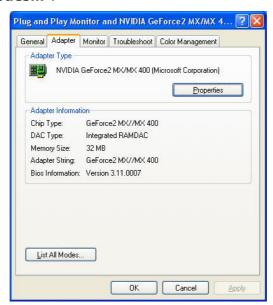


Then click "*Color quality*" to set the color depth (number of colors displayed). Your monitor supports a maximum color depth of 16 million colors corresponding to 32 bit or "True Color".

The resolution can be set under "Screen resolution". Your monitor can display a maximum of 1280 \times 1024 image dots.

The image repeat frequency can be set under "Advanced". A window with the characteristics of your video card appears depending on the configuration of your computer.

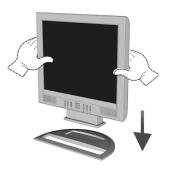
Under "*Adapter*" you can change the desired value in the selection field "**List All Modes...**".



Caution! If your setting does not coincide with the values supported by your display, you may not see any image. The value for the LCD should be 60 Hz and, depending on the setting, not exceed 75 Hz.

FIXING THE MONITOR BASE

Mount the monitor stand as shown in the diagram. Perform this step before connecting the monitor.

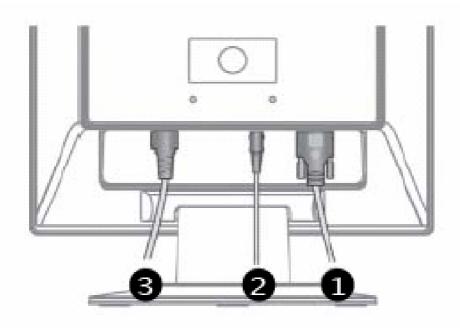


(Similar picture)

CONNECTING THE MONITOR

To start using the LCD monitor straight away, please read the "Safety and Precautions" section (page 1).

We recommend that you also read all the other sections as these contain detailed explanations and tips on how to use your LCD display.



- 1. Ensure that the LCD monitor is not yet connected to the line power (power cord not yet plugged in) and neither the LCD monitor nor the computer is switched on.
- 2. Prepare your computer for the LCD monitor if necessary (see previous pages) with the correct settings for your LCD.

CONNECTING VGA SIGNAL CABLE

3. Plug the signal cable into the matching VGA sockets on the computer

2 CONNECTING AUDIO CABLE (OPTIONAL)

4. Plug the audio cable into the matching sockets on the computer and on the monitor.

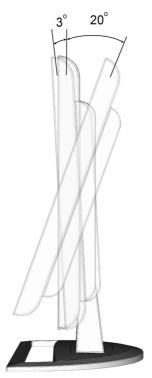
© CONNECTING THE POWER SUPPLY

- 5. Plug the power cable into the power supply socket on the LCD monitor and plug the plug into a socket in the vicinity of the LCD. (same circuit).
- 6. Switch on your display monitor with the ON/OFF switch.
- 7. Then switch on your computer.

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SETTING THE MONITOR POSITION

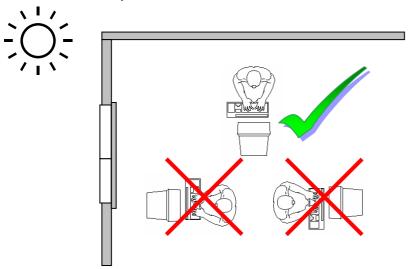
Position the LCD monitor according to your working environment. You can adjust the monitor **upward to 20°** and **downward to 3°**.



(similar picture)

Positioning of the Monitor

Please ensure that the monitor is set up in such a way that that reflections, glare and light-dark contrast are avoided (as this will make the screen less attractive to look at).



YOUR POSTURE

Sitting in one position for long periods can be uncomfortable. To minimize the potential for physical discomfort or injury, it's important that you maintain proper posture.

Back - While sitting at your work surface, make sure your back is supported by the chair's backrest in an erect position or angled slightly backwards.

Arms - Your arms should be relaxed and loose, elbows close to your sides, with forearms and hands approximately parallel to the floor.

Wrists - Your wrists should be as straight as possible while using the keyboard, mouse or trackball. They should not be bent sideways, or more than 10 degrees up or down.

Head - Your head should be upright or tilted slightly forward. Avoid working with your head or trunk twisted.

Legs - Your thighs should be horizontal or angled slightly downward. Your lower legs should be near a right angle to your thighs. Your feet should rest flat on the floor. If necessary, use a footrest, but double check that you have your seat height adjusted correctly before getting a footrest.

Overall - Change your position frequently and take regular breaks to avoid fatigue.

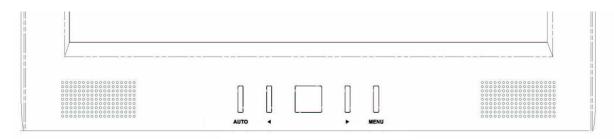
WORKING ERGONOMICS



- Hand's support rest: 2" 4"
- Top line of screen should keep eye's level or be a little beneath
- Eye's distance to screen: 20" 28"
- Legroom (vertical): at least 26"
- Legroom (horizontal): at least 24"

The illustration above should give you a guideline for an ergonomic workplace.

CONTROLS



AUTO	Auto Adjustment	With this key you can automatically adjust the image.		
•	Minus	When OSD is active this key sets a parameter value and decreases it.		
_	Decrease volume	Executing it directly lowers the volume.		
ტ	ON/OFF switch	With this switch you can switch the LCD monitor ON and OFF.		
	Operation indicator	Indicates the operating state. Blue = Normal mode, Orange = Stand-by mode		
•	Plus	When OSD is active this key sets a parameter value and increases it.		
	Increase volume	Executing it directly raises the volume.		
MENU	OSD	When this key is pressed the OSD (ON screen display) starts on your LCD monitor Confirm you selection by pressing this key.		

SETTING THE LCD MONITOR

You can set certain parameters for the LCD monitor on the OSD menu (ON screen display).

OSD MENU (ON SCREEN DISPLAY, ALL PICTURES SIMILAR)



(picture similar)

Press the **menu key** (see (3), page 12) to activate the OSD.

- 1. Select the options from the main menu with the ◆ or ▶ function selection keys.
- 2. Press the **menu key** to activate the sub-menu.
- 3. Select the options from the sub-menu with the ◀ or ▶ function selection keys.
- 4. Press the **menu key** to start the adjustment possibility.
- 5. Set the desired value with the ∢ or ▶ function selection keys.
- 6. Press exit to deactivate OSD.

The main functions and adjustment possibilities using the OSD are explained on the next pages.

Caution! The setting possibilities for the LCD monitor lead only to marginal changes due to this technology.

Symbol	Element	Adjustment		
	Brightness	0 - 100 %		
	Contrast	0 - 100 %		
AUTO	Auto Adjust	-		
	Clock Adjust	0 - 100 %		
	Phase Adjust	0 - 100 %		
	H-Position	0 - 100 %		
	V-Position	0 - 100 %		
		Warm		
	Color Temperature	Normal		
		Cool		
	Red	0 - 100 %		
3	Green	0 - 100 %		
	Blue	0 - 100 %		
	Language	Multilingual Language Support		
	Standard value	-		
EXIT	Terminate	-		

SAVING ENERGY

This monitor can be switched into various states of energy saving by the respective computer or operating system. This meets the current requirements for reduction of power consumption.

The monitor supports the following states of low energy consumption:

Status	Power Consumption	Colour of the indicator	Standby mode (approx.)
ON	< 35 W	Blue	-
OFF	< 5 W	Orange	3 seconds

The monitor remains – depending on the operating system – in the state of low power consumption, until you press a button of the keyboard or move the mouse (if available).

It takes approx. 3 seconds for the monitor to switch from **standby mode** to normal operation.

TROUBLESHOOTING

If your LCD monitor should have problems please check if it is properly installed and plugged according to the information given in the "Start-Up" section beginning on page 7). If the problems cannot be solved, read the following chapter for possible solution.

FINDING THE PROBLEM

Many times, problems have simple causes. We would like to give you some tips to solve some common problems. Should these tips not help, please call us!

CHECK CONNECTIONS AND CABLES

Start by carefully checking all cable connections visually. If the indicator lamps do not function, ensure that the LCD monitor and computer are properly connected to the line power.

TROUBLESHOOTING

No display on screen:

	·
Cł	neck:
	Image refresh frequency. The current image refresh frequency must be suitable for the LCD monitor.
	Power saving mode. Press any desired key and move the mouse to deactivate the mode.
	Signal cable pins. If pins are bent, please contact your service dealer.
	Set the appropriate values for your LCD monitor (see "Preparations on your computer", page 7).
Pictu	re runs or not stable:
	Signal cable pins. If pins are bent, please contact your service dealer.
	Video card. Check whether the settings are correct.
	Image refresh frequencies. Select permissible values for your graphic settings.
	Remove any interfering equipment (portable telephones, loudspeakers, etc.) from the vicinity of your LCD monitor.
	Avoid using monitor extension cables.
Color	s not displayed cleanly:
	Check the signal cable pins. If pins are bent, please contact your service dealer.
	,
	Avoid using monitor extension cables.
Chara	cters displayed dark, picture too small, too large or not centered, etc.:
	Readjust the corresponding settings.

DO YOU REQUIRE ADDITIONAL SUPPORT?

(Setting LCD monitor, page 13)

If the suggestions in the above section have not solved your problem, please contact the hotline. We will try and help you over the telephone. However, before you contact your Technology Center, please keep the following information available:

- How is your computer configured?
- What additional peripherals do you use?
- What messages, if any, appear on your screen?
- What software were you using when the error occurred?
- What steps have you already undertaken to solve the problem?
- If you have already been given a customer number, please keep this available.

Visible display size	17", TFT		
LCD-Monitor:			
Input voltage	AC 100-240 V ~ 50/60 Hz max. 1.5 A		
Power consumption	max. 35	o Watt	
Resolution Refresh rate	max. 1280 x 1024 max. 75 Hz		
Brightness Contrast Reaction time	300 cd/m² (typ.) 500:1 (typ.) 12ms (typ.)		
Horizotal/vertical vertical viewing angle	150°/135° (typ.)		
Video input	15-wired SUB-D connector		
User control	ON/OFF, OSD		
Dimensions (W x H x D)	16.1" x 17.05" x 9.02"		
	409 mm	n x 433 mm x 229 mm	
	Operat- ing	+41°F ~ +95°F	
Ambient Temperature		+5°C ~ +35°C	
Ambient Temperature	Storage	-4°F ~ +140°F	
		-20° C ~ +60°C	
Humidity	Operat- ing	10% ~ 80%	
	Storage	10% ~ 95%	
Speakers (optional)	2 x 1 Watt		

PIXEL DEFECTS ON LCDs (TFT-DISPLAYS)

Active matrix LCDs (TFT) with a resolution of 1024 x 768 pixel (XGA), which are in turn composed of three sub-pixels each (red, green, blue), contain about 2.4 million addressable transistors. Because of this very high number of transistors and their extremely complex production process occasionally defective or incorrectly addressed pixels or sub-pixels may occur.

There have been several attempts in the past to define the acceptable number of defective pixels. But this can be difficult and varies widely between different manufacturers.

5 Pixel

MEDION, therefore, adheres to the clear and strict requirements of **ISO 13406-**2, class II, for the warranty handling of all TFT display products. These requirements are summarized below.

Within ISO-standard 13406-2 the general requirements regarding pixel defects are defined. Pixel defects are classified into three failure types and four failure classes. Each individual pixel is made up of three sub-pixels in the primary colors (red, green, blue).

Types of Pixel Failures:

Type 1: A constantly lit pixel (a bright, white spot), even though it is *not* addres A white pixel is caused when all three sub-pixel are lit.

Type 2: A pixel that does not light up (dark, black spot), although it is addressed

Type 3: Abnormal or defective red, green or blue sub-pixels.

(E.g. constantly lit with half the brightness, one color is not shining, blinking or flickering, but not belonging to Type 1 or 2 Pixel Failures)

Sub-Pixel

Pixel

Blue Green

.Red

In addition: A cluster of type 3 (= 2 or more defective sub-pixels in an array of 5 x 5 pixel). A cluster is an array of 5 x 5 pixel (15 x 5 sub-pixel).

Classes of Pixel Failures:

Failure class Type 1 Type 2 Type 3 Cluster v. Type 3

I	0	0	0	-	0
II	2	2	5	-	2
III	5	15	50		5
IV	50	150	500		50

The acceptable number of defects of the above mentioned types in each failure class refers to one million pixels and has to be calculated according the physical resolution of the display.

This leads to a maximum *allowed* number in **class II type failure:**

<u>Resolution</u>	Mill. Pixel	<u>SubPixel</u>	<u>Type (s.above)</u>
1024 x 768 (15")	0.786432	2.359296	2 2 4 - 2
1280 x 1024 (17,18, 19")	1.310720	3.932160	3 3 7 - 3
1600 x 1200 (19")	1 920000	5 760000	4 4 10 - 4

Class I type failure only applies to special applications, e.g. medical applications, and results in corresponding price increases. Class II type failure is the established standard for quality conscious manufacturers with high quality displays.

Example 1:

A 15" - XGA-display consists of 1024 horizontal and 768 vertical picture dots (pixel), which amounts to a total of 786,432 pixel. Related to one million pixels this translates into a factor of about 0.8.

Class II type failure consequently allows for two defects each of type 1 and type 2 and 4 defects of type 3 and 2 clusters of type 3.

Example 2:

A 17" - SXGA-display consists of 1280 horizontal and 1024 vertical picture dots (pixel), which amounts to a total of 1,31 million pixels. Based on one million pixels this translates into a factor of about 1.31.

Class II type failure consequently allows for three defects each of type 1 and type 2 and 7 defects of type 3 and 3 cluster of type 3.

These cases are normally not covered by warranty.

If the number of failures exceeds the figures of any category mentioned above then this may be covered by the warranty.

SPECIFICATIONS 17

GUARANTEE

The receipt serves as proof of first purchase and should be kept in a safe place. It is required should you need to make use of the guarantee.

If the product is passed onto another user, then he shall be entitled to guarantee services for the remaining period of the guarantee. The receipt of purchase as well as this declaration should be passed onto the new user.

We guarantee that this equipment is in perfect working order and from a technical point of view it complies with the descriptions in the enclosed documentation. Upon production of the receipt, the remaining period of guarantee shall pass on from the original parts to the respective replacement parts. If you hand in this equipment to make use of the guarantee, you must remove all programs, data and removable storage media. Products which are sent without accessories will be replaced without accessories. The warranty obligation does not apply in the case of the problem being caused by an accident, a catastrophe, vandalism, misuse, incorrect use, ignoring the safety and maintenance regulations, changes by software, viruses or another piece of equipment or accessories or by other modifications not approved by ourselves. This limited guarantee declaration replaces all other guarantees of express or implied nature. This includes the guarantee of saleability or the suitability for a certain purpose but is not limited to this. In some countries the exclusion of implied guarantees is not permissible upon principle. In this case the validity of all express and implied guarantees is limited to the guarantee period. Once this period has expired, all guarantees become invalid. In some countries limiting the period of validity for implied guarantees is not permitted, so that the above limitation does not come into force. If you have any questions with regard to these guarantee conditions, please contact us.

LIABILITY LIMITATIONS

The contents of this manual are subject to unannounced changes caused by technical progress. Manufacturer and sales shall not be responsible for any damages which have been caused as a result of omissions or errors in the information provided in this manual.

Under no circumstances shall we be liable for any of the following:

- 1. Claims made against you by third parties based on loss or damage.
- 2. Loss or damage to your blanks, recordings or data.
- 3. Economic follow-on damage (including lost profit or savings) or associated damage even in the case that we have been informed of the possibilities of this type of damage.

In some countries the exclusion or limitation of accompanying or follow-on damage is not legally accepted so that the above limitations do not come into force.

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